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**REMARKS**

Claims 1-65 are currently pending in the subject application and are presently under consideration. Applicants' representative affirms that a provisional election was made with traverse to prosecute the invention of Group 1, claims 1-34 and 47-50. Claims 1, 2, 8, 10, 12, 13, 16, 18, 19, 25, 27, 29, 30, and 33 have been amended as shown on pp. 2-13 of the Reply. In addition claim 35- 46 and 52-65 have been withdrawn. Applicants' representative intends to rejoin at least a subject of the withdrawn claims upon allowance of various device/system claims.

Favorable reconsideration of the subject patent application is respectfully requested in view of the comments and amendments herein.

**I. Rejection of Claims 1-3, 5, 7-14, 16-20, 22, 24-31, 33-34, and 47-50 Under 35 U.S.C. §102(b)**

Claims 1-3, 5, 7-14, 16-20, 22, 24-31, 33-34 and 47-50 stand rejected under 35 U.S.C. §102(b) as being anticipated by Greta (U.S. 5,971,581). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. Greta does not teach or suggest each and every limitation of applicants' claimed invention.

For a prior art reference to anticipate, 35 U.S.C. §102 requires that "each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *In re Robertson*, 169 F.3d 743, 745, 49 USPQ2d 1949, 1950 (Fed. Cir. 1999) (quoting *Verdegaal Bros., Inc. v. Union Oil Co.*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987)).

Independent claims 1 and 18 recite *a user interface for creation and editing of a function block diagram in a controller configuration system, comprising ...one of a wire connector cross-reference indicia, a pin datatype indicia, a block execution status information indicia*. Applicants' claimed invention provides textual and/or graphical indicators in the function block diagram representation in the user interface for wire connector cross references, pin datatypes, function blocks execution status, and wired block parameters. Greta does not teach this aspect of the subject claim. Greta describes a *Fieldbus network of linked devices*, but fails to describe a user interface that provides a wire cross reference indicia. Furthermore, Greta

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describes a check performed by the configuration utility to validate compatibility of input and output data types connected by a wire, but does not describe the user interface providing pin data type indicia in the function block diagram representation. Greta also describes a display that shows status of actions that the configuration utility is taking such as writing, reading, scanning, or downloading data to the bus. This is not analogous to the block execution status information indicia of applicants' claimed invention, which provides status of a function block.

Claims 3 and 20 recite *wherein the wire connector cross-reference indicia provides an indication proximate a wire connector in the function block diagram representation of a connection associated with the wire connector*. Applicants' claimed invention provides indicators proximate to the wire connector indicating all of the locations that the wire connector is associated with. Contrary to assertions in the Office Action, Greta does not provide any cross reference indicators in the function block diagram. Greta merely displays the connector name which does not identify all of the locations to which it is cross referenced.

Claims 5 and 22 recite *wherein the connector cross-reference indicia provides an indication proximate a wire connector in the function block diagram representation of a plurality of connections associated with the wire connector*. The argument(s) noted *supra* with regard to claims 3 and 20 applies to these claims as well.

Claims 7 and 24 recite *wherein the pin datatype indicia provides an indication of whether a datatype associated with a function block pin is one of boolean, non-boolean, or unknown in the function block diagram representation*. As described above in relation to claims 1 and 18, Greta merely provides validation that an input connected to an output have matching data types. Greta does not provide any indication of data type in the user interface of the function block diagram representation.

Claims 12 and 29 recite *further comprising a freeform text box wherein the free-form text box comprises one of text, an OLE object, a control, a faceplate, HTML tagged text, and a link in the function block diagram representation*. Greta merely discloses a text editing tool that is capable of adding text to the to the function block diagram representation. Applicants' invention as recited in the subject claim provides for a free-form text box that is capable of containing more than text.

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Claims 14 and 31 recite *wherein the block execution status information indicia comprises an indication of a status condition associated with a function block in the function block diagram representation*. Greta does not describe status associated with a function block. Rather, Greta describes status of actions performed by the configuration utility, such as reads, writes, scans, and downloads to the data bus.

Independent claim 47 recites *wherein the user interface is adapted to establish an association between a first function block diagram element connected to the input wire connector and a second function block diagram element connected to the output wire connector if the input wire name and the output wire name are the same*. Greta does not teach that the input wire name and the output wire name *must* match for two function block elements that are connected via a wire. Rather, Greta allows the names to be different.

Claim 48 recites *wherein a user may create the input wire name associated with the input wire connector; and wherein the user interface is adapted to indicate to the user output wire names associated with output wire connectors available for association with the input wire connector; whereby the user may select an output wire name for use as the input wire name in order to associate the input wire connector with a desired output wire connector*. Greta does teach that a user will be provided with a list of valid output wire names available for association to select from when the user enters an input wire name. Rather, Greta merely allows the user to edit an input name.

Claim 49 recites *wherein a user may create the output wire name associated with the output wire connector; and wherein the user interface is adapted to indicate to the user input wire names associated with input wire connectors available for association with the output wire connector; whereby the user may select an input wire name for use as the output wire name in order to associate the output wire connector with a desired input wire connector*. Greta does teach that a user will be provided with a list of valid input wire names available for association to select from when the user enters an output wire name. Rather, Greta merely allows the user to edit an output name.

Claim 50 recites *wherein input wire names associated with input wire connectors already associated with another output wire connector are not indicated to the user, whereby the user is prevented from inadvertently associating an input with more than one output*.

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Gretta does not provide a list of names as described *supra* with respect to claim 49 and further does not validate that an input is already associated with an output so as not to present them to the user. Rather, Greta merely provides for data type compatibility checking between an input and output connected by a wire.

In view of at least the above, it is readily apparent that Gretta does not teach or suggest applicants' invention as recited in independent claims 1, 18, and 47 (and claims 2-17, 19-34 and 48-50 which respectively depend there from), and this rejection should be withdrawn.

## **II. Rejection of Claims 4, 6, 15, 21, 23 and 32 Under 35 U.S.C. §103(a)**

Claims 4, 6, 15, 21, 23 and 32 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Gretta in view of Austin (U.S. 6,370,569). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. Neither Gretta nor Austin teach or suggest each and every limitation of applicants' claimed invention.

Claims 4 and 21 recite *wherein the wire connector cross-reference indicia provides a hyperlink to the connection associated with the wire connector in the function block diagram representation*. As discussed above in connection with claims 1 and 18, Gretta does not teach a wire cross reference indicia. Furthermore, Austin does not teach a wire cross reference indicia and also does not teach a hyperlink that allows the user to navigate in the user interface between the wire cross reference indicia as in the subject claim. Rather, Austin teaches data communication protocol using hyperlinks within a user interface that allows a user to view data from various sources across a network.

Claims 6 and 23 recite *wherein the wire connector cross-reference indicia provides a plurality of hyperlinks to the plurality of connections associated with the wire connector in the function block diagram representation*. The argument above with regard to claims 4 and 21 applies to claims 6 and 23.

Claims 15 and 32 recite *wherein the block execution status information indicia comprises an indication in a properties page associated with the function block*. Gretta does not teach a block execution status indicia. As conceded in the Office Action, Gretta also does not teach an indication in a properties page associated with the function block. Furthermore,

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Austin does not teach a block executions status indicia and also does not teach an indication in a properties page associated with the function block. Rather, Austin teaches a properties page associated with a data socket client that supports the hyperlinks for accessing various data sources on the network. This properties page contains a status property that informs the program using the data socket client whether the data socket client is connected or unconnected. This status indicator would not be capable of providing any status associated with a function block as in the applicants' claimed invention.

In view of at least the above, it is respectfully submitted that Gretta and Austin do not teach or suggest applicants' claimed invention as recited in claims 4, 6, 15, 23, and 32. Accordingly, withdrawal of this rejection is respectfully requested.

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CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments and amendments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063.

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

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